

5-25 wt. % of 1-eicosanol,
20-60 wt. % 1-docosanol,
20-50 wt. % of 1-tetracosanol, and
1-5 wt. % of 1-hexacosanol.

Claim 11 (New): A mixture of primary alyphatic alcohols isolated from unsaponifiable matter of tall oil soap, where said mixture comprises:

1-10 wt. % of 1-octadecanol,
5-25 wt. % of 1-eicosanol,
20-60 wt. % 1-docosanol,
20-50 wt. % of 1-tetracosanol, and
1-5 wt. % of 1-hexacosanol.

Claim 12 (New): A method for isolating a mixture of primary alyphatic alcohols from unsaponifiable matter of tall oil pitch, where said method comprises the steps of:

distilling unsaponifiable matter of tall oil pitch to produce a distillate;
dissolving said distillate in methanol to form a solution;
cooling down said solution to form a precipitate; and
recovering said precipitate where said precipitate consists essentially of:

1-5 wt. % of 1-eicosanol,
5-30 wt. % 1-docosanol,
20-60 wt. % of 1-tetracosanol, and
15-50 wt. % of 1-hexacosanol.

Claim 13 (New): A mixture of primary alyphatic alcohols isolated from unsaponifiable matter of tall oil pitch, where said mixture comprises:

- 1-5 wt. % of 1-eicosanol,
- 5-30 wt. % 1-docosanol,
- 20-60 wt. % of 1-tetracosanol, and
- 15-50 wt. % of 1-hexacosanol.

Claim 14 (New): The mixture of primary alyphatic alcohols according to Claims 10, 11, 12, or 13 in combination with a mixture of sterols, where said mixture of sterols comprises:

- 45-70 wt. % of beta sitosterol,
- 10-24 wt. % beta sitostanol,
- 3-5 wt. % of campesterol,
- 1-10 wt. % of campestanol, and
- 0-5 wt. % of stigmasterol,

wherein the weight ratio of the mixture of primary alyphatic alcohols to the mixture of sterols in the combined mixture ranges from 1:100 to 5:150.

Claim 15 (New): The mixture of primary alyphatic alcohols according to Claims 10, 11, 12, or 13 in combination with a mixture of fatty acyl esters of sterols, where said mixture of fatty acyl esters sterols comprises:

- 45-70 wt. % of beta sitosteryl ester,
- 10-24 wt. % beta sitostanyl ester,
- 3-5 wt. % of campesteryl ester,
- 1-10 wt. % of campestananyl ester, and

0-5 wt. % of stigmasteryl ester,

wherein the weight ratio of the mixture of primary aliphatic alcohols to the mixture of fatty acyl esters of sterols in the combined mixture ranges from 1:100 to 5:150.

Claim 16 (New): A food composition which comprises the mixture of Claims 10, 11, 12, or 13 in combination with a food substance, wherein said food substance is selected from the group consisting of edible oil, margarine, butter, salad dressing, milk and beverages.

Claim 17 (New): A pharmaceutical composition which comprises the mixture of Claims 10, 11, 12, or 13 in combination with a pharmaceutically acceptable carrier, excipient or dilutant.

Claim 18 (New): The composition of Claim 17 in the form of a capsule, tablet, liquid or powder.

Claim 19 (New): A method for reducing serum cholesterol in human subjects which comprises administering to said subjects an effective amount of the composition of Claim 16.

Claim 20 (New): A method for reducing serum cholesterol in human subjects which comprises administering to said subjects a pharmaceutically effective amount of the composition of Claim 17.

Claim 21 (New): A food composition which comprises the combined mixture of Claim 14 in combination with a food substance, wherein said food substance is selected from the group consisting of edible oil, margarine, butter, salad dressing, milk and beverages.

Claim 22 (New): A pharmaceutical composition which comprises the mixture of Claim 14 in combination with a pharmaceutically acceptable carrier, excipient or dilutant.

Claim 23 (New): The composition of Claim 22 in the form of a capsule, tablet, liquid or powder.

Claim 24 (New): A method for reducing serum cholesterol in human subjects which comprises administering to said subjects an effective amount of the composition of Claim 21.

Claim 25 (New): A method for reducing serum cholesterol in human subjects which comprises administering to said subjects a pharmaceutically effective amount of the composition of Claim 22.

Claim 26 (New): A food composition which comprises the combined mixture of Claim 15 in combination with a food substance, wherein said food substance is selected from the group consisting of edible oil, margarine, butter, salad dressing, milk and beverages.

Claim 27 (New): A pharmaceutical composition which comprises the mixture of Claim 15 in combination with a pharmaceutically acceptable carrier, excipient or dilutant.

Claim 28 (New): The composition of Claim 27 in the form of a capsule, tablet, liquid or powder.

Claim 29 (New): A method for reducing serum cholesterol in human subjects which comprises administering to said subjects an effective amount of the composition of Claim 26.

Claim 30 (New): A method for reducing serum cholesterol in human subjects which comprises administering to said subjects a pharmaceutically effective amount of the composition of Claim 27.

Claim 31 (New): A food composition which comprises the combined mixture of Claims 14 or 15 in combination with a food substance, wherein said food substance is selected from the group consisting of edible oil, margarine, butter, salad dressing, milk and beverages.